

Publications and Patents:

Publications (i10-index: 29; citations >2000)

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- 45) Chiu T-Y, Lao J, Manalansan B, **Loqué D**, Roux SJ, Heazlewood JL (2015) Biochemical characterization of *Arabidopsis* APYrase family reveals their roles in regulating endomembrane NDP/NMP homeostasis. **Biochem J.** (doi: BJ20150235)
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- 42) **Loqué D**, Scheller HV, Pauly M. (2015). Engineering of plant cell walls for enhanced biofuel production. **Curr Opinion Plant Biol.** 25:151-161.
- 41) Scullin CS, Cruz AG, Chuang Y, Simmons BA, **Loqué D**, Singh S (2015). Engineering secondary cell wall deposition enhances monomeric sugar release after low temperature ionic liquid pretreatment. **Biotechnology for Biofuels**. 8:95.
- 40) Schicklberger M, Shapiro N, **Loqué D**, Woyke T, Chakraborty R (2015). Draft Genome Sequence of *Raoultella terrigena* R1Gly, a Diazotrophic Endophyte. **Genome Announcements**. 3(3): e00607-15.
- 39) Eudes A, Sathitsuksanoh N, Baidoo E, George A, Liang Y, Yang F, Singh S, Keasling J, Simmons B, **Loqué D** (2015). Expression of a bacterial 3-dehydroshikimate dehydratase reduces lignin content and improves biomass saccharification efficiency. **Plant Biotechnology Journal**. (doi:10.1111/pbi.12310).
- 38) Vega-Sánchez M, **Loqué D**, Lao J, Catena M, Verhertbruggen Y, Herter T, Yang F, Harholt J, Ebert B, Baidoo E, Keasling J, Scheller H, Heazlewood J, Ronald P, (2015) Engineering temporal accumulation of a low recalcitrance polysaccharide leads to increased C6 sugar content in plant cell walls. **Plant Biotechnology Journal**. 13(7):903-914.
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Patents

- 9) PCT Patent Application 61/928,216: **Loqué D** and Yan Liang: *Generation of Heritable Chimeric Plant Traits*
- 8) Patent Application 2015/0013033: **Loqué D** and Eudes A: *Tissue Specific Reduction of Lignin*
- 7) Patent Application 2015/0051376 Scheller HV, **Loqué D** and Htwe SM *Dominant negative mutations of Arabidopsis RWA*
- 6) PCT/US2012/ 13/982,231: **Loqué D** and Scheller HV: *Spatially Modified Gene Expression in Plants*
- 5) Patent Application 61/676,811: **Loqué D**: *Systems and Methods for Enhancing Gene Expression*
- 4) Patent Application PCT/US2012/046764: **Loqué D** and Eudes A: *Lignification Reduction in Plants*
- 3) Patent Application 13/367,260: Kerfeld CA and **Loqué D**: *Design and Implementation of Novel and/or Enhanced Bacterial Microcompartments for Customizing Metabolism*
- 2) Patent Application 13/274,244: **Loqué D** and Eudes A: *Host Cells and Methods for Producing Cinnamoyl Anthranilate and Analogs Thereof*
- 1) Patent Application 13/273,971: **Loqué D** and Frommer WB: *Antibodies Capable of Specifically Binding to a Specific Amino Acid Sequence*